

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 February 2001 (01.02.2001)

PCT

(10) International Publication Number
WO 01/07579 A2

- (51) International Patent Classification⁷: C12N 9/00
(21) International Application Number: PCT/US00/20674
(22) International Filing Date: 27 July 2000 (27.07.2000)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
60/145,898 27 July 1999 (27.07.1999) US
(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/145,898 (CIP)
Filed on 27 July 1999 (27.07.1999)
(71) Applicant (for all designated States except US): THE SALK INSTITUTE FOR BIOLOGICAL STUDIES [US/US]; 10010 North Torrey Pines Road, La Jolla, CA 92037 (US).
(72) Inventors; and
(75) Inventors/Applicants (for US only): NOEL, Joseph, P. [US/US]; 7280 Park Village Road, San Diego, CA 92129 (US). FERRER, Jean-Luc [FR/FR]; 3, allée Vasco de Balboa, F-38090 Ville Fontaine (FR). JEZ, Joseph [US/US]; 5345 La Jolla Boulevard, La Jolla, CA 92037 (US). AUSTIN, Mike [US/US]; Apartment G, 9192 Regents Road, La Jolla, CA 92037 (US). BOWMAN, Marianne [US/US]; 10034 Riverhead Drive, San Diego, CA 92129-3217 (US).
(74) Agent: REITER, Stephen, E.; Gray Cary Ware & Freidenrich LLP, Suite 1600, 4365 Executive Drive, San Diego, CA 92121 (US).
(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
Published:
— Without international search report and to be republished upon receipt of that report.
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND COMPOSITIONS FOR DETERMINING ENZYMATIC ACTIVITY

(57) Abstract: The present invention comprises crystalline polyketide synthases, isolated non-native polyketide synthases having the structural coordinates of said crystalline polyketide synthases, and nucleic acids encoding such non-native polyketide synthases. Also disclosed are methods of predicting the activity and/or substrate specificity of putative polyketide synthase, methods of identifying potential polyketide synthase substrates, and methods of identifying potential polyketide synthase inhibitors.

WO 01/07579 A2